

ABSTRACT

Described are a system and a method for optical tracking of assets. The system includes a sensor having a plurality of pixels. Each pixel is adapted to produce an electrical signal responsive to an incident optical data signal emitted by an optical tag attached to an asset. The system also includes a sensor processor in communication with the sensor and configured to generate an electrical data signal based on optical data signals incident on the pixels. The sensor processor also generates asset data in response to the electrical data signals from the pixels. The sensor and sensor processor can be implemented as an optical communications imager in which each pixel generates a communication data signal based on incident light. Alternatively, the sensor can include a digital video camera or an analog video camera for lower bandwidth communications.